

Amendments to the Abstract

Please amend the Abstract to read as follows.

An apparatus ~~and associated method~~ for measuring vibration in an article having a rotating member. ~~The device comprises a~~ A motion sensitive transducer ~~attachable to the article comprising an output producing~~ produces a time domain analog signal in response to the vibration. An analog-to-digital data acquisition member ~~comprises an input connected to the transducer output for sampling~~ samples the transducer signal and ~~comprising an output producing produces~~ a time domain digital signal therefrom ~~from the sampling~~. A timing sensor is adapted to detect an instantaneous speed of the rotating member and preferably triggers the data acquisition member to begin sampling when the rotating member is rotating. A processor ~~comprises an input connected to the data acquisition member output for translating~~ processes the time domain digital signal preferably by translation to a frequency domain digital signal and ~~determining~~ determination of the magnitude and phase of the ~~vibration~~ frequency domain digital signal at a frequency associated with the instantaneous speed of the rotating member.